Amendments To Claims

- 1-22. (Cancelled).
- 23. (New) A key-frame extraction system, comprising: video frame extractor that extracts each of a series of video frames from a video;

a set of frame analyzers that obtain the series of video frames in parallel from the video frame extractor, each frame analyzer selecting a corresponding set of candidate key-frames from the series by performing a different corresponding analysis on each video frame in the series such that the analyses are selected to detect multiple types of meaningful content in the video:

key-frame selector that obtains the corresponding candidate key-frames from each frame analyzer and arranges the candidate key-frames into a set of clusters and that selects one of the candidate key-frames from each cluster as a key-frame for the video.

- 24. (New) The key-frame extraction system of claim 23, further comprising an audio event detector that obtains the series of video frames from the video frame extractor and that selects a corresponding set of candidate key-frames from the series by performing an audio analysis on each video frame in the series and that provides the corresponding set of candidate key-frames to the key-frame selector.
- 25. (New) The key-frame extraction system of claim 23, wherein the key-frame selector selects the key-frames by determining an importance score for each candidate key-frame in each cluster.
- 26. (New) The key-frame extraction system of claim 25, wherein the key-frame selector determines the importance scores by determining an image content of each candidate key-frame.
- 27. (New) The key-frame extraction system of claim 25, wherein the key-frame selector determines the importance scores by

determining an audio content of each candidate key-frame.

- 28. (New) The key-frame extraction system of claim 23, wherein the key-frame selector selects the key-frames by determining an image quality for each candidate key-frame in each cluster.
- 29. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include a color histogram analyzer.
- 30. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include a color layout analyzer.
- 31. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include a fast camera motion detector.
- 32. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include a camera motion tracker.
- 33. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include an object motion analyzer.
- 34. (New) The key-frame extraction system of claim 23, wherein the frame analyzers include a human face detector.
- 35. (New) The key-frame extraction system of claim 23, further comprising a user interface for displaying a set of video frames in the video previous to each key-frame and a set of video frames in the video subsequent to each key-frame and for obtaining a user selection of one or more of the video frames.
- 36. (New) A method for key-frame extraction, comprising:
 selecting multiple sets of candidate key-frames from a
 video including detecting multiple types of meaningful content
 in the video by performing in parallel a set of different
 analyses on each video frame in the video;

arranging the candidate key-frames into a set of clusters; selecting one of the candidate key-frames from each cluster as a key-frame for the video.

- 37. (New) The method of claim 36, wherein selecting multiple sets of candidate key-frames includes selecting a set of candidate key-frames from the video by performing an audio analysis on each video frame in the video.
- 38. (New) The method of claim 36, wherein selecting one of the candidate key-frames from each cluster includes determining an importance score for each candidate key-frame in each cluster.
- 39. (New) The method of claim 38, wherein determining an importance score comprises determining an image content of each candidate key-frame.
- 40. (New) The method of claim 38, wherein determining an importance score comprises determining an audio content of each candidate key-frame.
- 41. (New) The method of claim 36, wherein selecting one of the candidate key-frames from each cluster includes determining an image quality for each candidate key-frame in each cluster.
- 42. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing a color histogram analysis.
- 43. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing a color layout analysis.
- 44. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing a fast camera motion analysis.
- 45. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing a camera motion detection.

- 46. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing an object motion track.
- 47. (New) The method of claim 36, wherein performing in parallel a set of different analyses includes performing a human face detection.
- 48. (New) The method of claim 36, further comprising displaying a set of video frames in the video previous to each key-frame and a set of video frames in the video subsequent to each key-frame and obtaining a user selection of one or more of the video frames.